

✓ Please replace the paragraph beginning on page 14, line 13, with the following new paragraph:

AI The slit 72 is provided between the first lens 71 and the second lens 73 in the beam-condensing projection optical system 41 shown in FIGS. 8 and 9 and in the beam-condensing projection optical system 41' shown in FIG. 11. Instead of using this slit, it may be preferable to provide a plurality of slits between the lenticular lens 65 and the lens 66 in the superposed projection optical system 39. Alternatively, it may be preferable to provide a partition between the 5-portioned liquid crystal 38 and the lenticular lens 65 so that the partition is parallel to the beams. In these cases, the beam-condensing projection optical system 41' should provide the correction cylindrical lens 80 between the first lens 71 and the second lens 73.

IN THE CLAIMS:

✓ Please cancel claims 6 and 11 and amend claims 1 to 5, and 7 to 11 as set forth below in clean form. Additionally, in accordance with 37 CFR 1.121 (c)(1)(ii), the amended claims are set forth in a Marked-Up Version in the pages appended to this amendment.

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1. (Amended) A holographic stereogram exposure apparatus for exposing three-dimensional image information on a hologram

recording medium to produce a holographic stereogram, said apparatus comprising:

spatial light modulation means for separately displaying a plurality of images in a parallax direction, and

an object beam optical system that projects light beams passed through said plurality of images displayed on said spatial light modulation means to form a superposed image of said plurality of images, and condenses said superposed images to separately project said plurality of images in said parallax direction on said hologram recording medium, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.

2. (Amended) The holographic stereogram exposure apparatus according to claim 1 further including a reference beam optical system that projects a reference beam onto said hologram recording medium for interference with said plurality of images projected on said hologram recording medium.

3. (Amended) The holographic stereogram exposure apparatus according to claim 1, wherein said object beam optical system comprises a superposed projection optical system for projecting said light beams passing through said spatial light modulation means to form said superposed image, and a beam-condensing

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projection optical system for condensing said superposed image to project said plurality of images onto said hologram recording medium.

4. (Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said spatial light modulation means is divided into a horizontal direction.

5. (Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said spatial light modulation means is divided into both vertical and horizontal directions.

6. Cancel without prejudice or disclaimer.

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7. (Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said beam-condensing projection optical system projects said superposed image onto said hologram recording medium in a non-parallax direction and condenses said superposed image in a parallax direction.

8. (Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said beam-condensing projection optical system uses a first-group lens and a second-group lens to guide said superposed image to a beam-condensing cylindrical lens.

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9. (Amended) The holographic stereogram exposure apparatus according to claim 8, wherein said beam-condensing projection optical system is provided with a correction lens between said first-group lens and said second-group lens for correcting unevenness of the angle of field for each element hologram on said hologram recording medium.

10. (Amended) A holographic stereogram exposure method of exposing three-dimensional image information onto a hologram recording medium to produce a holographic stereogram, said method comprising:

an object beam projection step for projecting light beams passed through a plurality of images separately displayed in a parallax direction to form a superposed image of said plurality of images, and condensing said superposed image to separately project said plurality of images on said hologram recording medium in said parallax direction; and

a reference beam projection step for projecting a reference beam onto said hologram recording medium for interference with said light beams projected on said hologram recording medium, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.

11. Cancelled without prejudice or disclaimer.

C/ 12. (Amended) A holographic stereogram generation system for recording three-dimensional image information on a hologram recording medium and generating a holographic stereogram, comprising:

A3 an image generation system for generating a plurality of images in a parallax direction, including a spatial light modulation means for separately displaying said plurality of images in said parallax direction ;

an object beam optical system for projecting light beams through said plurality of images generated by said image generation system and displayed on said spatial light modulations means in the parallax direction, to form a superposed image of said plurality of images on said holographic medium, and projecting images corresponding to the number of separations on said hologram recording medium; and

a reference beam optical system for projecting a reference beam on said hologram recording medium for interference with said image projected on said hologram recording medium by said object beam optical system, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.